

# EUROPEAN PATENT OFFICE

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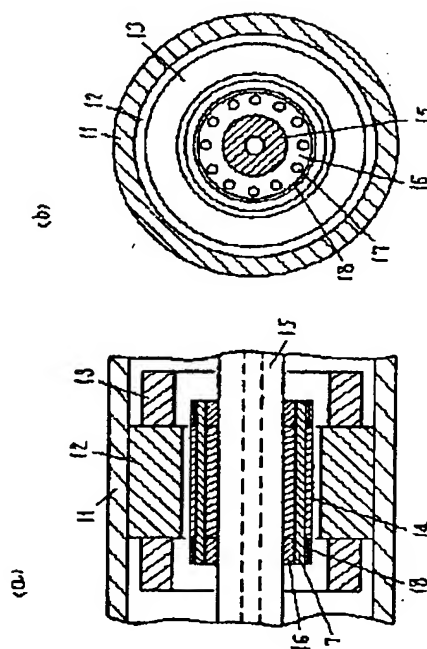
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TITLE : MOTOR



**ABSTRACT :** **PURPOSE:** To obtain a motor having a rotor in which strength against centrifugal force is enhanced, by winding a molded fiber reinforced resin member around a short-circuit ring so that the short-circuit ring and the fiber reinforced resin member are not destroyed in rotation of the motor.

**CONSTITUTION:** A rotor core 14 is fitted to a rotary shaft 15 whereas a short-circuit ring 16 is secured through a conductor rod 17 to the opposite ends of a rotor core 14 and fitted to the rotary shaft 16. A fiber reinforced resin member 18 is wound around the short-circuit ring 16 with predetermined tensile force after a rotor is entirely fitted to the rotary shaft 15. Initial winding tensile force is determined according to first conditions for preventing slip, during high speed rotation, between the rotary shaft 15 and the short-circuit ring 16 or between the short-circuit ring and the member 18 and second conditions for preventing breakdown of the short-circuit ring 16 and the member 18 during high speed rotation. Since a tensile force is imparted on the fiber reinforced resin member so that the first and second conditions are satisfied, tensile stress of the short-circuit ring is relaxed and centrifugal breakdown is prevented.

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